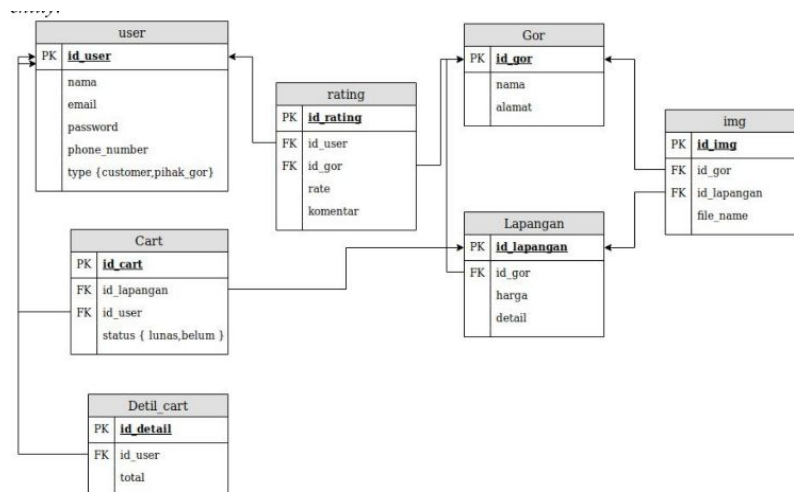


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Testing



Saat melihat class diagram, class diagram yang paling besar adalah class user. Disini saya membuat factory yaitu tool yang digunakan untuk melakukan testing database di laravel.

```
<?php

/** @var \Illuminate\Database\Eloquent\Factory $factory */
use App\User;
use Illuminate\Support\Str;
use Faker\Generator as Faker;
use Carbon\Carbon;

/*
|-----
|-----
| Model Factories
|-----
|-----
|
| This directory should contain each of the model factory
definitions for
| your application. Factories provide a convenient way to generate
new
| model instances for testing / seeding your application's
*/
```

```

database.
/
*/

$factory->define(User::class, function (Faker $faker) {
    return [
        'name' => $faker->name(),
        'email' => $faker->unique()->safeEmail,
        'email_verified_at' => now(),
        'password' =>
'$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi',
        'remember_token' => Str::random(10),
        'phone_number' => $faker->phoneNumber(),
        'type' => $faker->randomElement(['customer', 'pihak_gor'])
    ];
});

```

Lalu buat file untuk melakukan testing dengan perintah berikut:

```
php artisan make:test UserTest
```

Ubah file UserTest menjadi seperti berikut:

```

<?php

namespace Tests\Feature;

use App\User;
use Tests\TestCase;
use Illuminate\Foundation\Testing\WithFaker;
use Illuminate\Foundation\Testing\RefreshDatabase;

class UserTest extends TestCase
{
    /**
     * A basic feature test example.
     *
     * @return void
     */
    public function testDatabase()
    {
        $users = factory(User::class, 10)->create();
    }
}

```

```
$userCount = count($users) == 10;

$this->assertTrue($userCount);
}
}
```

Lakukan testing dengan bantuan tool phpunit dengan perintah berikut:

```
./vendor/bin/phpunit tests/Feature/UserTest.php
```

Maka akan menghasilkan testing seperti berikut:

```
⇒ ./vendor/bin/phpunit tests/Feature/UserTest.php
PHPUnit 7.5.15 by Sebastian Bergmann and contributors.

.                                                                    1 / 1 (100%)

Time: 1.22 seconds, Memory: 18.00 MB

OK (1 test, 1 assertion)
bnc@WedangBaiqur:~/Labs/impal/bermaster ⚡
```

Dapat dilihat 1 test case yang dibuat berhasil diuji dengan hasil yang benar.

II. Sequence Diagram dan IMK

3.1.1.2. Sequence Diagram

